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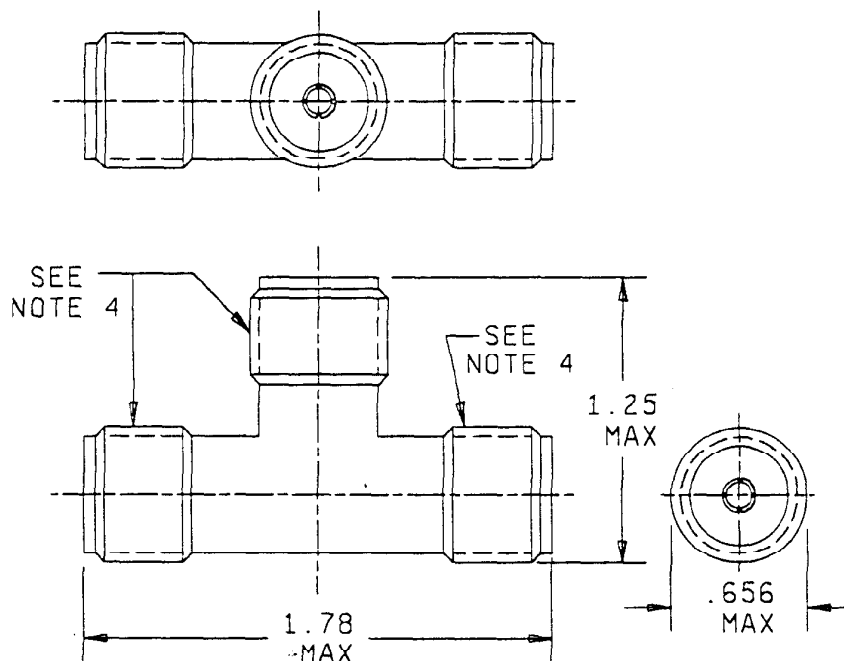
MIL-PRF-55339/6A
13 July 1987
SUPERSEDING
MIL-A-55339/5
6 May 1975

PERFORMANCE SPECIFICATION

ADAPTER, CONNECTOR, COAXIAL, RADIO FREQUENCY, (WITHIN SERIES N), CLASS 2, "T" PLUG

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the adapter described herein shall consist of this specification and the latest issue of Specification MIL-PRF-55339.

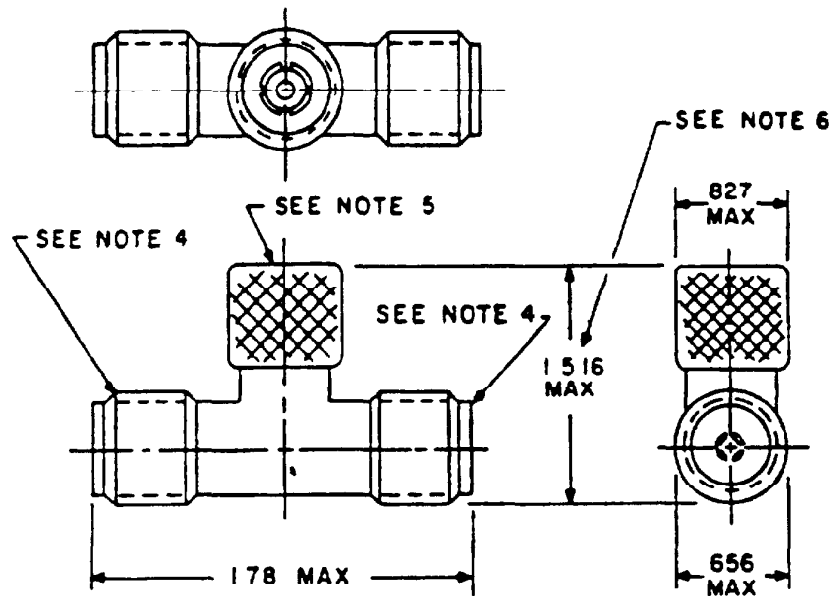


Part number: M55339/06-00028

inches	mm
.656	16.66
1.25	31.8
1.78	45.2

FIGURE 1. General configuration.

MIL-A-55339/6A



Part number: M55339/06-00001

Inches	mm
1.78	45.1
1.516	38.51
.656	16.66
.827	21.01

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. All undimensioned pictorial representations are for reference purposes only.
4. N interface, socket contact, in accordance with MIL-STD-348.
5. N interface, pin contact, in accordance with MIL-STD-348.
6. Maximum dimension applies when the coupling nut is biased forward.

FIGURE 1. General configurations - Continued.

REQUIREMENTS:

Design and construction:

General configuration: See figure 1.

Impedance: 50 ohms, nominal.

Working voltage:

Sea level: 1,000 V rms

70,000 feet: 250 V rms

Frequency range: Not applicable.

Temperature range: -65°C to $+165^{\circ}\text{C}$.

PERFORMANCE REQUIREMENTS (installation torque of 6 to 10 inch-pounds).

Dimensions: See figure 1. (Reference MIL-STD-348).

Center contact retention:

Axial force: 6 pounds minimum.

Torque: 4 inch-ounces, minimum.

Force to engage and disengage:

Longitudinal force: Not applicable.

Torque: 6 inch-pounds, maximum.

Coupling proof torque: Not applicable.

Mating characteristics:

Center contact (socket):

Oversize test pin diameter: .074 inch, minimum.

Insertion depth: .125 inch, minimum.

Number of insertions: 1.

Maximum test pin (insertion force test):

Steel test pin diameter: .066 inch, minimum.

Pin finish: 16 microinches.

Insertion force: 2 pounds, maximum.

Number of insertions: 1.

Minimum test pin (withdrawal force):

Steel test pin diameter: .063 inch, maximum.

Pin finish: 16 microinches.

Withdrawal force: 2 ounces, minimum.

Number of withdrawals: 1.

Outer contact:

Minimum test ring inner diameter: .316 inch, maximum.

Ring finish: 16 microinches.

Insertion force: 25 pounds, maximum.

Insertion depth: .093 inch, minimum.

Number of insertions: 1.

MIL-A-55339/6A

Maximum test ring inner diameter: .324 inches, minimum.

Test ring finish: 16 microinches.

Insertion depth: .031 inch, maximum.

Number of insertions: 1.

Permeability: <2.0.

Seal:

Hermetic: Not applicable.

Pressurized: Not applicable.

Weatherproof: Not applicable.

Insulation resistance: 5.000 megohms, minimum.

VSWR: Not applicable.

RF leakage (total): Not applicable.

RF insertion loss: Not applicable.

Durability: 500, minimum.

Rate: 12 cycles per minutes, minimum.

Dielectric withstanding: Test voltage: 2.500 V rms, minimum (sea level).

Contact resistance (milliohms, maximum):

<u>Contract</u>	<u>Initial</u>	<u>After</u>
Center	2.5	3.0
Outer	0.2	Not applicable

Vibration, high frequency: Interruptions: 1 μ s, maximum.

Shock: Test condition I.

Thermal shock: Test condition C.

Moisture resistance: 200 megohms, minimum.

Corona level:

Voltage: 500 V, minimum.

Altitude: 70,000 feet, minimum.

RF high potential withstanding voltage:

RF voltage: 1.500 V rms, minimum.

Frequency: 5 MHz, minimum.

Salt spray (corrosion): Applicable.

MIL-A-55339/6A

Coupling mechanism retention force: 100 pounds, minimum.

Marking: As specified in MIL-A-55339.

Part number: See table 1.

TABLE I. Cross-reference of part numbers.

Part number	Superseded part number or type designation 1/
M55339/06-00028	MS15506 REB49077 UG-28A/U
M55339/06-00001	REB49080 UG-107B/U

1/ The superseded part number or the type designation is for cross-reference only. Where a superseded part number or type designation is not given, none was assigned or will be assigned. The part number M55339/06-00028 or M55339/06-00001 shall be used in all cases for marking and identifying the adapter.

Group qualification: See table II.

TABLE II. Group qualifications.

Group	Submission and qualification of any of the following connectors	Qualifies the following connectors
I	M55339/06-00001 M55339/06-00028	M55339/06-00001 and M55339/06-00028

MIL-A-55339/6A

Custodians:

Army - CR
Navy - EC
Air Force - 85

Review activities:

Army - AR, CR, MI
Navy - SH
Air Force - 11, 80, 99
DLA - ES

User activities:

Army - AT
Navy - AS, MC
Air Force - 19

Preparing activity:

Army - CR

Agent:

DLA - ES

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